

Title (en)

Plasma torch for gas shielded arc welding with water cooled non consumable electrode

Title (de)

Plasmabrenner für das Plasma-Schutzgas-Lichtbogenschweißen mit einer nicht abschmelzenden wassergekühlten Elektrode

Title (fr)

Torche à plasma d'arc pour la soudure sous gaz protecteur à électrode non consommable refroidie à l'eau

Publication

EP 0794696 B1 20040721 (DE)

Application

EP 97101879 A 19970206

Priority

DE 19608554 A 19960306

Abstract (en)

[origin: DE19608554C1] The plasma burner has a water-cooled electrode with upper and lower sections (12,13), contained at the centre of the plasma burner, provided with upper and lower jet parts (7,8), electrically insulated from one another via an intermediate piece (9). The lower section (13) of the electrode is provided by a rotationally symmetrical hollow body closed at one end, enclosing a concentric cooling pipe (14), coupled to an annular space (18) in the electrode supplied with the cooling water and projecting into a hollow space (22) of the electrode upper section (12). An annular cooling chamber (24) at the highest temperature section of the lower jet part is coupled to the latter hollow space.

IPC 1-7

H05H 1/34; **H05H 1/28**

IPC 8 full level

H05H 1/28 (2006.01); **H05H 1/34** (2006.01)

CPC (source: EP)

H05H 1/28 (2013.01); **H05H 1/341** (2013.01); **H05H 1/3436** (2021.05); **H05H 1/3442** (2021.05)

Cited by

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Designated contracting state (EPC)

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